1. Copy each equation and solve it to find the value of x :-

   (a) $x + 7 = 12$ (b) $x + 12 = 14$ (c) $11 + x = 23$

   (d) $8 - x = 3$ (e) $x - 2 = 5$ (f) $x - 12 = 14$

2. Copy and solve :-

   (a) $2a = 10$ (b) $3y = 15$ (c) $9h = 81$

   (d) $12p = 0$ (e) $5x = 75$ (f) $19w = 76$

3. Find the value of each variable by solving the equations :-

   (a) $2x + 4 = 16$ (b) $3y + 1 = 13$ (c) $5y + 4 = 9$

   (d) $8p - 1 = 23$ (e) $2x - 7 = 13$ (f) $9 + 2w = 15$

   (g) $7c - 12 = 9$ (h) $14 - 5g = 4$ (i) $8 - 3e = 2$

   (j) $8 + 4x = 0$ (k) $12z - 3 = 57$ (l) $8 - 2a = -2$

4. Solve the following equations :-

   (a) $5x + 3 = 3x + 5$ (b) $8x + 9 = 7x + 17$ (c) $7x - 1 = 3x + 15$

   (d) $5x - 3 = 2x + 18$ (e) $12x - 5 = 8x + 7$ (f) $10x - 1 = 8x + 6$

5. Solve these inequalities, (leave your answer in form eg. $x > 3$) :-

   (a) $x + 4 > 8$ (b) $x - 5 < 7$ (c) $h - 4 > 0$

   (d) $3f > 15$ (e) $7w \leq 28$ (f) $3c \leq 15$

   (g) $2x + 5 < 13$ (h) $5y - 1 \leq 9$ (i) $3g - 1 > 14$

   (j) $4x - 6 < -6$ (k) $1 + 3x \leq 6$ (l) $2y - 7 \geq 7$

6. Three pints of beer cost <u>more than</u> £4·50.

   (a) Show this as an inequality using the letter p.

   (b) Solve to find the minimum cost of one pint.

7. Four bags of marbles and ten extra
   marbles weigh <u>more than</u> 170 grammes.

   (a) Write an inequality to show this information.

   (b) Solve to find the minimum weight of a bag of marbles.